Kenmore C877.15 Instruction Manual



Introduction

In your choice of ar electric sewing machine you have selected one of the world's finest. Your new electric sewing may have designed to give you lifetime satisfaction.

This is the latest type of sowing machine. It is machine is equipped with a reverse feeding mechanism or bling you to sew in reverse direction as well as in forward direction. It is an oscillating shuttle and central bobbin for smooth performance. The machine features a snap-out race for easy cleaning of the shuttle body, a drop-feel adjustment for darning, an automatic attachment for embroidery, a floatin presser foot which sews over pins and heavy fabric, a self releasing bobb winder, and a numerically calibrated thread tension.

You will find illustrations for each instruct n to simplify the use of your machine. We advise you to read the followin pages carefully to obtain the best results from your sewing machine.

Pleasant Sewing

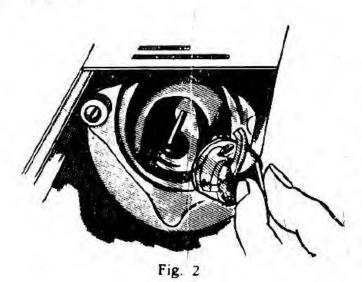
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OF YOUR ELECTRIC SEWING MACHINE

TO INSERT THE NEEDLE

Turn Balance Wheel towards you until NEEDLE BAR Fig 1 (A) is at its highest point, then loosen the NEEDLE CLAMP SCREW Fig 1 (B). Hold needle with point down and insert needle with the flat surface to the right into the needle clamp as far as it will go. Then tighten the Needle Clamp Screw.

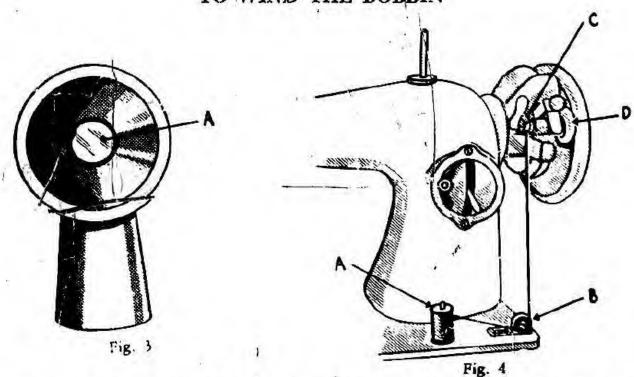


B FLAT SIDE

Fig. 1

Turn Balance Wheel towards you until needle bar is at its highest point; draw the bed slide open to the left with thumb and forefinger of the left hand; open bobbin case latch and remove bobbin case. As long as the latch remains open, the bobbin will stay in the bobbin case. Release latch, turn open end of bobbin case downwards and bobbin will drop out.

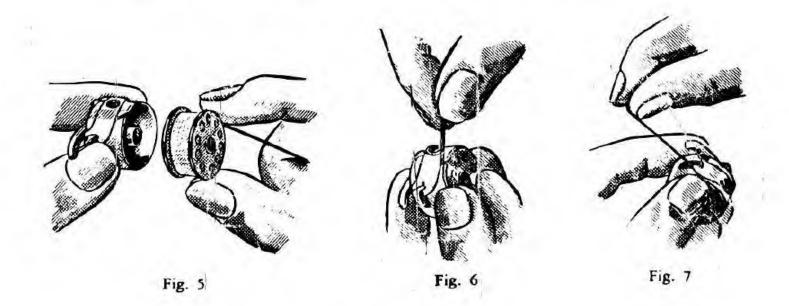
TO WIND THE BOBBIN



Loosen the BALANCE-WHEEL-TOP-MOTION-SCREW Fig 3 (A) toward you, allowing the balance wheel to run free; place spool of thread on spool pin Fig 4 (A) at the foot of the machine. Pass the thread through tension-bracket Fig. 4 (B) and up to the thread pressing lever Fig 4 (C). Wind thread from inside outwards several times around bobbin, which had been placed on the left end pin of the rubber ring Fig 4 (D). Be sure that the bobbin is pressed to the end of the spindle. Press down the bobbin and bobbin winder latch will drop down and hold the bobbin winder-ring against the balance wheel. Then operate the machine like by sewing.

(continued on next page)

The bobbin winder is automatically released, when sufficient thread has been wound on the bobbin.



THREADING THE BOBBIN CASE

Hold bobbin between thumb and forefinger (see Fig 5, 6, 7) and pull out 2 to 3" of thread. Guide thread into the cross slot in the edge of the bobbin case. Pull thread under the tension spring toward you into the eye.

TO INSERT BOBBIN CASE

After turning the Balance Wheel until needle bar is at its highest point, insert bobbin into the bed of the machine and place it so that the center stud of the bobbin case holder fits into the slot of the race. By inserting the bobbin case the hole must be on top (as shown in figure 8). Press the bobbin case gently into the bobbin case holder, release at the same time the latch until the stud of the bobbin case holder snaps into the latch. At least 3 to 4 inches of thread should hang freely from the bobbin case. Close the bed slide.

UPPER THREADING

Turn Balance Wheel towards you until the take-up lever is raised to its highest point. Place spool of thread on the spool pin of the machine arm; pass thread over and through the thread guide Fig. 10 (A) at the top corner of the face-plate, down and over the back to front between the tension-disc Fig. 10 (B) up to thread guard Fig. 10 (C), down into the hook of take-up spring Fig. 10 (D) and over back to front through hole in the end of the thread take-up-lever Fig. 10 (E) down into the eyelet of the face-plate, Fig. 10 (F) into the lower wire-thread guide, Fig. 10 (G) then from left to right

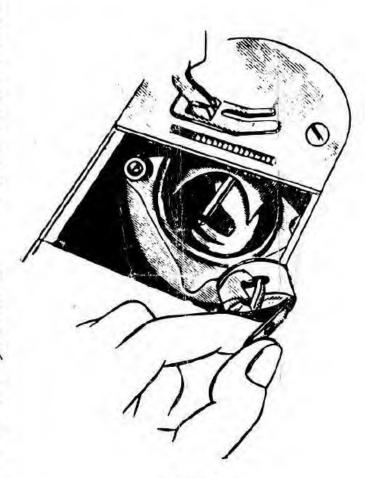


Fig. 8

through eye of the needle Fig. 10 (H). Draw about 2" of thread through the eye of the needle with which to commence sewing. Hold needle thread in your left hand, turn balance wheel towards you until needle moves up and down and up again to its highest point, catching the bobbin thread, which will be brought up that way through the hole in the thread plate.

TO REGULATE THE PRESSURE

For darning and embroidering, release the pressure by pressing down the automatic darning lever 'A' Figure 9. Make sure the Presser Foot is down when releasing the pressure.

For ordinary sewing - reset the pressure

by pressing down on 'B' figure 9.

To increase the pressure press down on B' Figure 9 until the desired pressure is obtained. There should be just enough pressure on the foot to allow the fabric to move easily and to prevent it from rising with the needle.

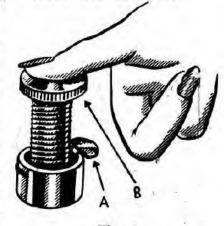


Fig. 9

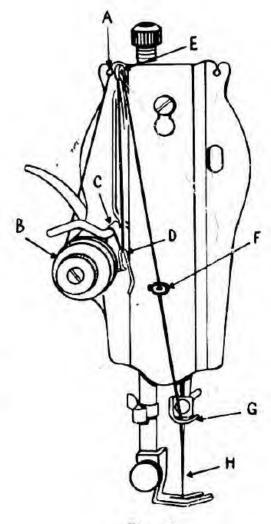
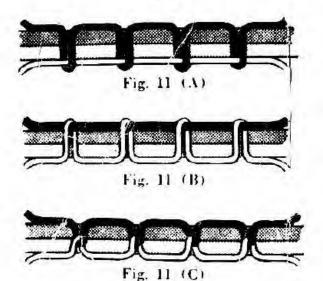


Fig. 10



REGULATING THE THREAD TENSION

If upper tension is too loose, under thread draws upper thread down, thus forming a small knot or loops, as shown in Fig. 11 (A). If upper tension is too tight, under thread is drawn up as shown in Fig. 11 (B). Fig. 11 (C) illustrates how the threads lock in the center of the material when tension is properly set.

TO REGULATE THE TENSION

The tension on the needle thread should be regulated only when the presser foot is down. Having lowered the presser foot, tuen the small thumb screw (Fig. 11D) at the front of the tension discs over toward you to increase the tension. To decrease the tension turn the thumb nut over from you.

The tension on the bobbin thread is regulated by the screw (Fig. 11E) in the bobbin case tension spring. To increase the tension, turn this screw over to the right. To decrease the tension, turn the screw over to the left.

When the tension on the bobbin thread has been once properly adjusted, it is seldom necessary to change it, as a correct stitch can usually be obtained by varying the tension on the needle thread.

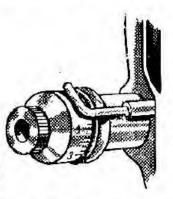
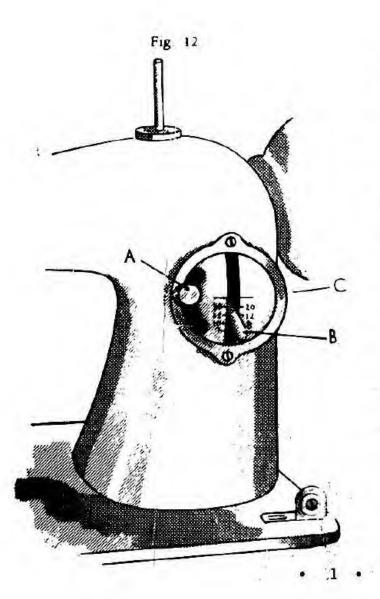


Fig. 11 (D)

Fig. 11 (E)





REGULATING THE LENGTH OF THE STITCH

The length of the stitch is regulated by the stitch-regulator and thumb-screw in the slot in front of the arm Fig. 12 (A). Loosen the screw and move regulator downwards and the stitches will become longer. If the regulator is moved in the opposite direction (upwards) the stitches become shorter. After determining the correct position of the regulator, re-tighten the screw im nediately so the position will not be altered.

TO SEW IN REVERSE

Leosen the screw and move lever above center line, Fig. 12 (C). You can now adjust for desired length of reverse stitch. Then tighten the screw and it will lock the stitch. The machine now sews in reverse.

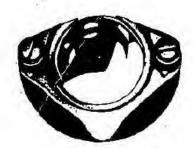


Fig. 13a



Fig. 13b

SNAP-OUT RACE:

The Snap-Out Race, Fig. 13, is designed to facilitate cleaning of the shuttle body. Turn the lever down, and swing the case open. You now have easy access to cleaning the shuttle body: After cleaning, it is essential that all parts be put back correctly in their original place. Before resuming sewing, make sure that race is closed.

DROP-FEED:

For darning and mending. With the single purning of the button your feed mechanism drops so as to enable the material to glide enably without interference. This is especially designed for your machine for the purpose of darning, monogramming, embroidering. Before turning your drop feed button, make sure to turn balance wheel and bring the needle to its highest point.

HELPFUL HINTS

MACHINE WORKING HEAVILY: If, after standing idle for some time, the machine works heavily, apply a little paraffin or benzine in place of oil. Then run the machine rapidly to clean the bearings with special sewing machine oil. The use of inferior oil is often the cause of the machine heavy working.

TO AVOID BREAKING NEEDLES: See that the presser foot or attachments are securely fastened by the thumb screw. Do not sew heavy seams, or very thick goods with too fine a needle. A large needle and thread to correspond should be used on heavy work. See that the needle is not bent and avoid pulling when stitching.

BREAKING OF THE NEEDLE THREAD: If the needle thread breaks it may be caused by:

- · Improper threading.
- · Tension being too tight.
- The needle thread being too coarse for size of needle.
- . The needle being bent or set incorrectly.

SKIPPING OF STITCH: The needle may not be accurately set into the needle bar or the needle may be bent or blunt. The needle may be too small for the thread being used.

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OILING OF THE MACHINE

To insure easy running, the machine requires oiling and if used continuously it should be oiled every day. One drop of oil in each hole is sufficient. Lift machine back and oil all moving parts on the underside of the machine.

INSTRUCTIONS FOR USING THE KENMORE SEMI ROTARY SEWING MACHINE

For the lifetime of your Kenmore Simpsons-Sears gharantees an efficient repair and parts service.

Take advantage of this service for your convenience and satisfaction. You can obtain this service through any Simpsons-Sears Retail or Mail Order Store.

Important: Be sure to state the model number of your machine.

The Model number is C877.15.

The Model number is also shown on the front of your machine as Model No. 15.

Needles, Shuttles. Bobbins and Bulbs may be selected from our General Catalogue or purchased through your nearest Simpsons-Sears Retail Store or Order Office.

SEWING MACHINE

MACHINE A COUDRE

KENMORE

Moder No. 0877.15

This model number will be 'jound on label on flange on underpart of manhine. Always mention this model number when communicating with us regarding your machine or when ordering repair parts.

HOW TO ORDER REPAIR PARTS

All parts shown on the following list and illustrated on the parts disgram may be ordered through any Sungson's or Simpsons Sears retail or mail-ader store. In ordering parts by mail from the mail order store which serves the territory in which you tive, solling rices will be furnished and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS AWAYS GIVE THE FOLLOWING INFORMATION:

- I. The Part Number in this list.
- 2. The Part Name in this list.
- The Model Number of your machine which dimmber C877.15 and will be found on tabel on flange underpart of machine.

IMPORTANT

This list is valuable. It will assure your being able to obtain proper parts service at all times. We suggest you keep it with other valuable papers.

Modele No. C877.78

Vons trouveres ce numéro sur l'étiquette apparaissent sur le rebord en dessous de la machine. Mentionnes toujours ce numéro de modèle quand vous constituiques avec nous au sujet de votre machine et quand vous commandes des pièces de rechange.

COMMANDES DES PIECES DE RECHANGE

Vous pouves commander toutes les pièces listées et illustrées au verso ches Bimpson's ou ches Bimpsons-Sears Limited à la succurisés qui dessert le district où vous demeures. Vous pouvet toujours obtenir les prix de vente sur desserts. Les pièces su

QUAND VOUS COMMANDEZ des PIECES de RECHANGE, DONNEZ TOUJOURS les INFORMATIONS SUIVANTES:

- 1. Le numéro de la plèce dans la liste.
- Q. Le nom de la pièce dans la liste.
- Le numéro du modèle sur l'étiquette apparaissent sur le rebord en dessons de la machine.

IMPORTANT

Cette liste est précieuse, elle vous sesurers la livraison des pièces imémes dont vous avez hemin, elle éviters les erreurs. Nous suggérons que vous conservies cette liste-avec vou autres papiers importants.

SIMPSONS-SEARS LIMITED

List of Sewing Machine Parts

Item Number	Parts Name	Parts Number	Item Number	Parts Name	Parts
	Sewing Machine Head	Mamber	79	Feed dog	Number
1	Arm	J 01002	80	Feed dog screw	J 01450
2	Bed	J 01003	81	Feed lifting rock shaft	J 01410
4	Arm down pin	J 01004	82-1	Park Million and Aller and	
5	Arm screw	J 1137	82-2	Feed driving rock shaft crank Feed driving rock shaft crank roller	J 01412
6	Arm slide cover, Arm shield	J 01012	82-3	Feed lifting rock shaft crank roller and stud	J 01413
7	Slide cover set screw	J 3675	83	Crank clamping screw	J 1156
8	Oil tube	J 01013	84	Crank connecting rod	J 01334
10	Oil tube spring	J 01014	85	Crank connecting rod cap screw	J 1884
11	Oil tube washer (Presser foot lifter screw,)	J 01015	86	Crank connecting rod hinge screw	J 1370
**	Hinge bar clamping screw	J 1443	87	Connecting lever screw nut	J 1118
12	Upper shaft or Arm shaft	J 01201	88	Oscillating rock shaft	J 01331
13	Upper shaft arm bushing	J 01202	89 89-1	Oscillating shaft crank -	J 01326
14	Arm shaft bushing set screw	J 1430	89-2	Oscillating shaft crank (body) Oscillating shaft crank slide brock	J 01327
15	Thread take up cam, Grooved cam	J 01209	90	Shuttle driver pin	J 01329
16	Thread take up cam Position screw	J 2277	91	Lower shaft or oscillating shaft	J 01325
17	Needle bar connecting link	J 01125	92	Shuttle driver	J 01310
18	Needle connecting link adjusting screw	J 3444	93	Shuttle race (complete)	J 01302
19	Needle bar connecting link stud screw	J 1564	93-1	Shuttle race (body)	J 01308
20	Needle bar connecting link hinge screw nut	J 18	93-2	Shuttle race back or Shuttle race ring	J 01304
21	Needle bar	J 01122	93-3	Shuttle race pin	J 01305
	Needle bar connecting stud	J 01124	93-4	Shuttle race ring front plate or shuttle race cap	
23	Needle bar set screw	J 1154	93-5	Shuttle race back spring screw	J 1639
25	Needle bar bushing	J 01123	93-6	Shuttle race cap	J 01307
26	Needle bar bushing set screw	J 2364	93-7	Shuttle race cap screw	J 1653
27	Needle bar bushing felt Needle clamp	J 01130	34	Shuttle race screw	J 1144
28	Needle clamp screw	J 01127	9,1	Shuttle body	J 01308
29	Needle bar thread guard	J 1546	96	Bobbin Case	J 01309
30	Needle bar thread guard screw	J 01128 J 1249	96-1	Bobbin case (body)	J 01313
31	Thread cutter	J 01129	96-2	Bobbin case latch lever	J 01318
32	Needle plate	J 01125	96-3 96-4	Bobbin case latch	J 01319
33	Needle plate screw	J 1681	96-5	Late i pin Bobbia case latch spring	J 01320
34	Slide Plate	J 01137	96-6	Bobbin e ase latch stop screw	J 01321
35	Hinge Plate Spring	J 01138	96-7		J 1586
36	Slide spring crew	3726 -		Tusion st, ring for Bobbin case	J 01314 J 1585
37	salance Wegnt	J- 01200	37		
38	Arm shaft balance set screw	J 3505	98	Arm spool pin -	J 01008
39	Balance wheel	J 01201	99	Arm spool pin washer	J 01009
40	Balance wheel bushing clamp stop motion	J 01206	100	Face plate (complete)	J 01101
41	Balance wheel blushing pin	J 01207	100-1	Face plate (body)	J 01102
42	Stop motion screw	J 1254	100-2	Face plate tension seat	J 01109
43	Clamp stop motion clamp washer	J 01206	100-3 100-4	Tension thread guard Tension stud bushing	J 0110
44	Friction screw, stop screw	J 1246	100-5	Face plate thread guard	J 0110
45	Rotating Shaft Crank Pin	J 1457	100-6	Face plate thread guard rivet	J 0110
			101	Tension screw stud	J 274
	and the same of th	* *****	102	Tension stud set screw	J 274
46	Thread take up lever (complete)	J 01210	103	Thread take up spring regulator	J 0111
46-1	Thread take up lever	J 01211 J 01213	104	Thread take up spring regulator screw	J_184
40-2	Thread take up lever roller		105	Thread take up spring	(J 0111
46-3	Thread take up lever stud	J 01214	106	Tension disk wheel	J 0111
47	Thread take up lever set screw	J 2980	107	Tension releasing pin	J 0111
48	Presser bar	J 01140	108	Tension releasing dice release washer	J 0111
49	Presser regulating thumb screw	J 3711	109	Tension spring	J 0111
50	Presser bar spring washer	J 01142 J 01160	110	Tension stud nut	J 6
51	Presser foot (fixed)		111	Face plate screw	J 118
52	Presser Foot (Hinged)	J 01155	112	Bobbin winder (complete)	J 0150
	Bosses has milds becales	J 01143	113	Bobbin winder (body)	J 0150
53	Presser bar guide bracket	J 1448	114	Bobbin winder spindle holder	J 0150
54	Presser bar guide bracket set screw	J 01141	115	Bobbin winder frame hinge screw	J 376
55 56	Presser bar spring Presser foot lifter	J 01145	116	Bobbin winder spring	J 0150
		J 01146	117	Stop latch adjusting plate	J 0150
57 58	Presser foot lifter hinge bar Feed cam	J 01401	118	Bobbin winder tension set screw	J 119
59	Feed cam set screw	J 2269	119	Bobbin winder spindle	J 0150
60	Forked rod	J 01402	120	Bobbin winder spindle pin	J 0150
61	Forked rod screw	J 1174	121	Bobbin winder pulley	J 0150
62	Feed forked connecting hinge screw	J 2364	122	Bobbin winder friction ring	J 0151
63	Feed connecting slide block	J 01406	123	Stop latch	
64	Feed forked connecting roller screw stud	J 2070	124	Bobbin winder stop latch screw	J 378
65	Feed regulator	J 01403	125	Bobbin winder stop latch spring	J 118
66	Feed regulator hinge screw	J 2810	126	Bobbin winder set screw	J 0151
67	Feed regulation washer	J 01404	127 127-1	Tension bracket Tension bracket body	J 0151
68	Feed regulator thumb screw	J 3676	127-1	Bobbin Winder Tension Disc	J 0151
69	Feed regulator screw washer	J 01405	127-2	Bobbin Winder Tension Disc	J 0151
70	Feed rock shaft rocker bar	J 01430	127-4	Bobbin Winder Tension Disc Bobbin winder bracket spring	J 0151
71	Center screw	J 1305	127-5	Bobbin Winder Bracket Disc Screw	J 120
72	Feed rock shaft center nut	J 16	127-6	Bobbin Winder Bracket Body Screw	J 0152
73	Feed bar	J 01415		Comment of Section Section 2 and 2 and 2	
74	Feed bar center screw	J 1313	1		
75	Feed bar center screw nut	J 17	1		

